PATENT COOPERATION TREATY

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

From the INTERNATIONAL BU	IREAU			
·	Global Intellectual D			
To:	clobal intellectual Property			
	0 8. März 2006			
	O Koul			
BASF AKTIENGESELLSCHAF 67056 Ludwigshafen ALLEMAGNE J. Lef EZ: Fuese Leena	7V 01 14.03.05			
IMPORTANT NOTIFICATION				
nternational filing date (day/month/sea	>)			

06 April 2004 (06.04.2004)

Applicant

Date of mailing (day/month/year)

Applicant's or agent's file reference

0000054443

International application No. PCT/EP2004/003624 j

02 March 2006 (02.03.2006)

BASF AKTIENGESELLSCHAFT et al

1.	Transmittai of the translation t	the applicant.

T	The International Bureau transmits herewith a copy of the English translation of the international preliminary report o
	patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Ellen Moyse

Facsimile No.+41 22 338 89 75

Facsimile No.+41 22 740 14 35 Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

A-mli south on	a a a metta fila a a fana				
Applicant's or agent's file reference 0000054443		FOR FURTHER	ACTION	See Form PCT/IPEA/416	
International application No. Inte		International filing	late (day/month/year)	Priority date (day/month/year)	
PCT/EF	2004/003	3624	06.04.20	04	08.04.2003
			onal classification and		
		· () : ::			
					•
Applicant					· · · · · · · · · · · · · · · · · · ·
	KTIENGES	ELLSCHA	· ፑጥ		
			-		
				· · · · · · · · · · · · · · · · · · ·	
1. This unde	report is the inter r Article 35 and tr	rnational prelim ransmitted to the	inary examination re applicant according	eport, established by this to Article 36.	International Preliminary Examining Authority
2. This	REPORT consists	s of a total of	5	sheets, including	ng this cover sheet.
3. This	report is also acco	ompanied by AN	INEXES, comprising	;	·
a	(sent to the	applicant and t	o the International B	ereaul a total of 8	sheets as follows:
*** =					sheets, as follows: amended and are the basis for this report and/or
	sheets	s containing rections).	tifications authorized	by this Authority (see Ru	the 70.16 and Section 607 of the Administrative
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental				
_	Box.				, -
ъ. [(sent to the	International B	ureau only) a total of	(indicate type and numbe	er of electronic carrier(s))
				•	containing a goggeneral listing and/or tables
			readable form only, a	as indicated in the Supple	, containing a sequence listing and/or tables emental Box Relating to Sequence Listing (see
4. This	report contains inc	dications relating	g to the following ite	ms:	
\boxtimes	Box No. I	Basis of the r	eport		
. 🔲	Box No. II	Priority			•
	Box No. III	•	ment of opinion with	regard to novelty invent	ive step and industrial applicability
				regula to no tony, in the	ive step and incustrial approaching
	Box No. IV	Lack of unity		08/6\tdd A	
	Box No. V		tement under Article explanations support		lty, inventive step or industrial applicability;
	Box No. VI	Certain docur	nents cited		
	Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application					
Date of submission of the demand				Date of completion of thi	is report
·					•
Name and mailing address of the IPEA/EP				Authorized officer	
,					
Facsimile No.				Telephone No.	
				z ezephone 140.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/003624

Во	x No. 1	В	Basis of the report		
1.		h regard to cated under	the language, this report is based on the internation r this item.	nal application in the language in	which it was filed, unless otherwise
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
		inte	ernational search (Rule 12.3 and 23.1(b))		
		pub	olication of the international application (Rule 12.4)		
			ernational preliminary examination (Rule 55.2 and/o		•
2.	rece	n regard to a viving Office report):	the elements of the international application, this re in response to an invitation under Article 14 are	eport is based on (replacement : referred to in this report as "o	theets which have been furnished to the riginally filed" and are not annexed to
		the interna	ational application as originally filed/furnished	•	•
	\boxtimes	the descri	iption:		
		pages _	1-127		as originally filed/furnished
		pages*		received by this Authority on	-
		pages* _		received by this Authority on	
	\boxtimes	the claims	s:		
		nos.	•	•	as originally filed/furnished
		nos.*			r with any statement) under Article 19
				received by this Authority on	04.12.2004 with letter
		nos.*		received by this Authority on	01 03.12.2004
		_		received by this Admonty on	
	لـــا	the drawin	ngs:		
		sheets			as originally filed/furnished
		sheets*		received by this Authority on	
-		sheets*		received by this Authority on	
		a sequence	e listing and/or any related table(s) - see Supplemen	ntal Box Relating to Sequence Li	isting.
3.	Ш	The amend	dments have resulted in the cancellation of:		
		the d	description, pages		
		the c	claims, nos.		· · · · · · · · · · · · · · · · · · ·
		the d	drawings, sheets/figs	·	
		the s			
		any t	table(s) related to sequence listing (specify):		
4.		This report	t has been established as if (some of) the amendm been considered to go beyond the disclosure as filed	ents annexed to this report and d, as indicated in the Supplement	listed below had not been made, since tal Box (Rule 70.2(c)).
		the d	description, pages		
		the c	claims, nos.		-
	ĺ	the d	frawings, sheets/figs		-
	the sequence listing (specify): any table(s) related to sequence listing (specify):				
*	If iten	n 4 applies,	some or all of those sheets may be marked "super:		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/003624

Box	No. V		stement under Article 35(2) with regard to novelty, inventive step or industrial applicability; explanations supporting such statement	
1.	Statement			
	Novelty (N)	Claims 1-15	YES
			Claims	NO
	Inventive	step (IS)	Claims 1-15	YES
,			Claims	NO
	Industrial	applicability (IA) Claims 1-15	YES
			Claims	310
2.	Citations and	explanations (Rule 70 7)	
		Prior		
	1.	Prior a	arc .	
		m\- e-:		
			llowing documents cited in the search report	
		were ta	aken into account during examination:	
			US-A-5 169 430 (STRUNK RICHARD J ET AL), 8	
	,		December 1992 (1992-12-08)	
		D2:	EP-A-0 361 114 (NIHON NOHYAKU CO LTD), 4	
		1	April 1990 (1990-04-04)	
		D3: 1	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS	
		:	SERVICE, COLUMBUS, OHIO, US; YOSHIOKA,	
		7	YASUHIRO: "Heat-developable photographic	
		:	films containing specific hydrazine and	
		\$	specific heterocyclic compound",	
		2	XP002289556, found in the STN Database,	
		á	accession no. 2002:959013	
]	D4: V	NO 97/00246 A (CIBA GEIGY AG; BRUNNER HANS	
		(GEORG (CH); KARVAS MILAN (SK); NEBEL KURT),	
		3	3 January 1997 (1997-01-03)	
]	D5: I	DATABASE CAOLD CHEMICAL ABSTRACTS SERVICE,	
		C	COLUMBUS, OHIO, US; XP002289557	
	1	D6: V	NO 97/42176 A (BAYER AG; ANDREE ROLAND (DE);	
			DREWES MARK WILHELM (DE); DOLLINGER MAR), 13	

PCT/EP2004/003624

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

November 1997 (1997-11-13)

D7: US-A-4 369 058 (LEVITT GEORGE), 18 January 1983 (1983-01-18)

2. Novelty

The subject matter of claim 1 meets the requirements of PCT Article 33(2). The generic wording of claim 1 of the present application differs from the disclosure in documents D1-D5 by the variable Y, and differs from D6 by the chlorine definition at the ortho position with respect to the sulfonyl unit.

The present compounds as per claim 8 differ from the compounds in D7 by at least the variable Q (cf. claim 1 in D7, variable R2; and column 10, compounds II-B). The process claim 7 is therefore also novel.

3. Inventive step

The present application meets the requirements of PCT Article 33(3).

The present application can be considered to address the problem of providing further benzosulfonamide derivatives with improved herbicidal properties.

D1 is regarded as the closest prior art. D1 differs from the present compounds, as indicated

International application No.
PCT/EP2004/003624

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

in the paragraph about novelty. The compounds disclosed therein possess herbicidal properties. Owing to the minor structural variation, a person skilled in the art would expect the herbicidal properties of the present compounds.

However, the applicant could demonstrate, on the basis of a comparative test, that the presently claimed compounds possess surprisingly improved properties.

The above-mentioned problem has therefore been solved. The breadth of the claims represents a plausible generalisation of the tested examples.

The intermediate products make a structural contribution to the final products.

An inventive step can therefore be recognised.